



Subject card

Subject name and code	History of building structures, PG_00065189						
Field of study	Technical Physics						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			e-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Engineering Structures -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marcin Abramski					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 30.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM		
	Number of study hours	30	2.0	18.0	50		
Subject objectives	<p>Presenting structural engineering in a historical and cultural context.</p> <p>Demonstrating the social values of caring for historic buildings. Presenting contemporary techniques for strengthening building structures.</p>						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student understands the relationships between the technical characteristics of historical buildings and their history. The materials and technologies used in the building's construction and the architecture and structure used reflect their era.			[SW1] Assessment of factual knowledge		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student appreciates the role of architectural monuments in creating cultural awareness in society and understands the need for social care in the maintenance of these monuments.			[SK3] Assessment of ability to organize work		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student can recognize the age of historical buildings based on the structure, building material, or architectural style used. The student can describe the method of possible repair of a historical building.			[SU1] Assessment of task fulfilment		

Subject contents	<ol style="list-style-type: none"> 1. Civilization development and building structures. 2. Building architecture in the context of the culture and art of the era. 3. Building structures against the background of technical development in the field of obtaining building materials, construction equipment, construction technology and design techniques. 4. Static schemes of building structures used throughout history. 5. Concrete structures: history and the present. 6. Metal structures: history and the present. 7. Bridge structures: history and the present. 8. Large-panel housing construction: legacy, perspectives. 9. Durability of building monuments, factors of their degradation. 10. Maintenance of building monuments, techniques of strengthening their structures. 11. Important building monuments in the region: Gdańsk and the Pomeranian Voivodeship. 		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Koch Wilfried: <i>Style w architekturze : arcydzieła budownictwa europejskiego od antyku po czasy współczesne</i>. Przekł. z niem. Waldemar Baraniewski i in. Wyd. Weltbild, Warszawa, 2011. 2. Affelt Waldemar J: <i>Dziedzictwo w budownictwie albo O obiektach budowlanych jako dobrach kultury ksiąg dziesięć</i>. Wyd. Politechniki Gdańskiej. Gdańsk, 1999. 3. Krassowski Witold: <i>Dzieje budownictwa i architektury na ziemiach Polski</i>. Wyd. Arkady, Warszawa 1989. 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Proksa Michał: <i>Dzieje architektury i budownictwa w Polsce do połowy XVIII wieku: podręcznik dla studentów architektury, budownictwa i inżynierii środowiska</i>. Oficyna Wydawnicza Politechniki Rzeszowskiej, 2023 2. Sosnowski Oskar, Świechowski Zygmunt, Zachwatowicz Jan: <i>Dzieje budownictwa w Polsce</i>. Wydawnictwo Naukowe PWN. Warszawa, 1964. 	
	eResources addresses	Adresy na platformie eNauczanie: Historia budownictwa - Moodle ID: 40321 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40321	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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